TEAC DV-W58E Drive

Quick Installation Guide

The **TEAC DV-W58E** is a modern high performance CD-R / CD-RW drive.

Caution:
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the protective housing of the device listed above is opened without the consideration of the appropriate processing, serious injuries may result caused by the effect of the laser beam.

Components

Drive, Quick Installation Guide;

Kit version only: 4 mounting screws M3x5mm, 40-pin IDE data cable, audio cable.

The kit version can be identified if the product name ends with the letter "K" or “Kit”.

System requirements

Your Drive supports all major operating systems (with the exception of Windows 3.1x) and all major hardware platforms. To get the full performance it is recommended to use a system environment which’s computing power is equivalent to an IBM compatible PC with a Pentium II CPU with 300MHz clock frequency or more, 64MByte RAM or more and a fixed disk with an access time of 12ms or less.

Important:
To use the Drive, an IDE (ATAPI) controller is required. The necessary drivers are shipped with the corresponding controller card or they are available from the manufacturer of the controller.

Please do not install your Drive near sources of radiating heat like hard disks.

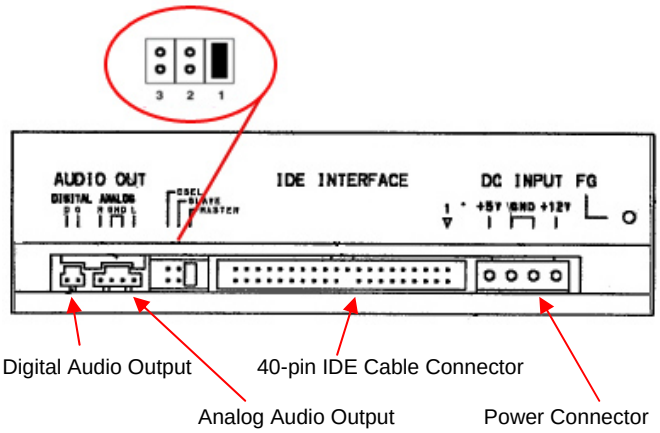
Drive Installation Directions

There are three possible positions for installation: Horizontal installation with the eject button to the right, and vertical installation in both possible directions. The installation position is not allowed to be tilted more than 5 degrees out of the vertical or 10 degrees out of the horizontal position. When the drive is vertical mounted an 80mm disc cannot be played.

Note:
Please use for the installation the fixing holes in the sides or on the bottom of the drive.

Jumpers for IDE Configuration

The strap (jumper) is factory-preset as shown below:



The Drive can be operated in the modes Master (1), Slave (2) or Cable Select (3).

Important:
During setting the mode be sure to switch off respectively disconnect any voltages connected to the drive (see section “Installation and Connection”).

1	2	3	Remarks
-	-	x	**Master**: The Drive is configured as first IDE drive (basic setting). This configuration can be used only if the Drive is connected to the **second** IDE controller (secondary IDE). If a hard disk is already operated at the secondary IDE controller (configured as master) the jumper setting at the drive has to be changed to slave.
-	X	-	**Slave:** The drive is configured as second IDE drive. If there is only one hard disk in the PC the optical drive can be operated at the same IDE connection parallel to this hard disk. Important: The data rates of both devices may be decreased.
X	-	-	**Cable Select:** Master/slave detection is achieved by the controller.

Installation and Connection

Very important:
Switch off your PC and any attached devices and disconnect the power cord(s). It is not sufficient to switch off the power switch! Do the same if the optical drive is reconfigured.

(1) Open the case of your PC and lift it off carefully.

(2) Configure the optical drive if necessary.

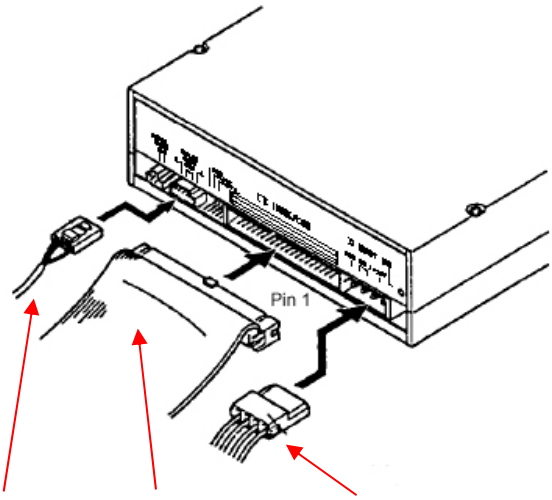
(3) Locate a free slot for 13.3cm / 5.25" drives and install the Drive using the provided four screws.

Important:
Do not use screws which are longer than 5 mm!

(4) Connect the power cable and the 40-pin data cable (assure the correct orientation, pin 1 is often marked with a color stripe) to the drive. Connecting in the wrong orientation may damage the drive and the PC!

(5) Connect the provided audio cable to the sound card.

Usually sound cards offer more than one connector to connect an audio cable to. Please refer to the manual of the sound card to find the connector in question.



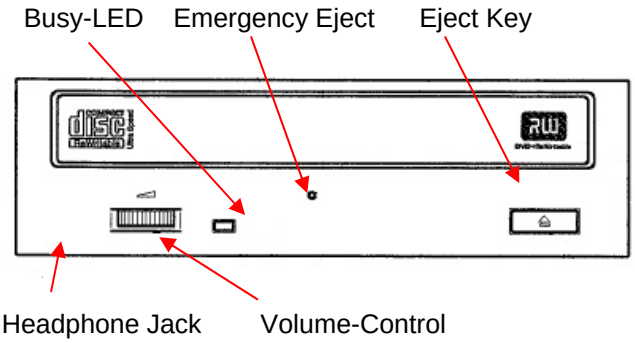
Audio-Cable 40-pin Datakabel Power Cable

(6) Close the case of the PC. Do not forget to connect other devices and accessories if there are any.

(7) Connect the PC to the wall outlet and switch it on

Important:
If your PC will not start up correctly switch it off immediately and check all of the connections and jumper settings.

Controls and Functions at the Front Panel



ON/BUSY indicator

The indicator LED light in Seek, Play, Read, and Write operation. In the following table you will find a list including a description of the different drive states and their associated indicator states.

Cleaning and maintenance of your TEAC Drive

Drive will not need maintenance if used as specified in this manual. Usually there are only problems with dirty or defective CD.

Important:
Do not use cleaning CDs which will remove dirt of the lense of the laser aided by a little brush. Do not clean the inner parts of your Drive with compressed air. Any of these methods may cause damage to your Drive.

Handling:

Check the CD before inserting it into the drive. It should not have finger prints or other dirt on it. Especially at high reading velocities dirt may increase the number of reading errors.

Very important:
Shape CD/DVD, a kind of CD/DVD which is not shaped like the normal round CD/DVD, are not allowed to be used in this drive. Otherwise rotational forces may cause severe damage to the drive.

Installing Drivers and the Writer Software

As a general precaution the installation of the hardware has to be carried out as described before. The software installation starts with activating the reading functionality of the drive as this is well known with any conventional CD-ROM drive. If the reading functionality is available the next installation step is to achieve the writing functionality provided of the writer software. More details according the installation of your writer software you will find in its documentation.

Installing Drivers with Windows 98/ME/2000/XP

According to the Plug-and-Play conventions the optical drive is recognized as a standard CD-ROM drive first. To make this possible the drives hardware installation must have been carried out correctly. After switching on your computer, Windows 98/ME /2000/XP will install the necessary driver automatically.

Caution:
Do not install any additional drivers with Windows 98/ME/2000/XP.

Installing Drivers with Windows NT 4.0 and OS/2

After installing the hardware, the reading functionality of the optical drive is activated with installing the drivers shipped with the corresponding operating system. The drivers may be configured and activated aided by the system control. Please refer to the manual of your operating system for any details.

Compatibility or Interoperability to other IDE Devices

If there are any problems if other drives are connected to the same IDE port (especially IDE-Changer, Phase Change Drive, ZIP-Drive, and others), the optical drive has to be connected as master as a single drive.

1	**Disc**	
	Applicable discs	CD-DA, CD-ROM Mode 1, CD-ROM XA Mode 2 (Form1, Form 2), Multisession Photo CD, CD-I, Video-CD, Enhanced CD, CD Extra, CD-Text, DVD-ROM, DVD-R (General), DVD-Video, DVD-RW, DVD+R, DVD+RW
	Writable discs	CD-R/RW, DVD+R/RW
	Disc diameter	12cm, 8cm
	Write methods	CD: Disc-at-once, Track-at-once, Session-at-once, Packet write
		DVD: Disc at Once, Incremental, Overwrite
	Disc rotation speed	CD: 40x CAV – 8500min / DVD: 12x CAV – 6900min
2	**Rotation speed (read mode)**	
	40 x (CAV)	CD-ROM Mode 1, CD-ROM Mode 2 form 2, CD-DA, CD-RW (read-only)
	12 x (CAV)	DVD-ROM
	8 x (CAV)	DVD-Video
	8 x (CAV)	DVD-R/RW, DVD+R/RW
3	**Rotation speed (write mode)**	
	32x, 24x, 20x (ZCLV), 16x,8x,4x (CLV)	CD-R
	US 16x (CLV), HS 10x, 4x (CLV), MS 4x (CLV)	CD-RW
	8x,6x,4x,2x Single / 2,4x Dual Layer	DVD+R
	4x, 2x (CLV)	DVD+RW
	Under some circumstances, the maximum write speed may not be achieved due to external factors (e.g. supported DVD-R/CD-R media speed or data transfer rate of the PC)	
4	Drive Performance	
	Data transfer rate (Asynchronous transfer)	Programmed I/O: 16.7MB/s max. (Mode 0 to 4) Burst DMA: 16.7MB/s max. (Mode 0 to 2) Burst UDMA: 33.3MB/s max. (Mode 0 to 2)
	Access time	100 ms - average (CD-ROM 40x), 130 ms – average (DVD-ROM, 12 x)
	Starting time from power on	CD-ROM: 12 sec max. (exkluding multi-session) / DVD-ROM: 18 sec max.
	Data buffer capacity	2MB
5	**Data read error rate**	DVD: once per 10-15 bits or less CD: Mode 1 and Mode 2 (Form 1) - once per 10-12 bits or less Mode 2 Form 2 and CDDA - once per 10-9 bits or less
6	**Front Panel**	
	Button	Auto eject or Auto inject
	Indicator (LED)	Green Color LED
	Volume control	Thumb wheel knob
7	**Rear panel**	
	Power supply	+5V, +12
	Interface connector	IDE (ATAPI): ATA / ATAPI-5
	Audio Output	Line out 0.85+/-0.15Vrms 47kOhm
	Strap switch	Mode setting straps (Master)
8	**Operating environment**	
	Place of Operation	Temperature 5 to 40 degC, Hummidity 20 to 80% (non-condencation)
	Place of storage	Temperature -20 to 60 degC, Hummidity 10 to 80% (non-condencation)
9	**Dimensions/weight**	
	Dimensions (WxHxD)	146.0 x 41.3 x 192.0 mm
	Weight	1200 g
10	Safety standards	UL, TÜV, FCC, CE
11	Reliability: MTBF	60,000 POH

Warranty is provided under the terms of the TEAC warranty conditions.
In case of warranty: www.teac.de/support